

Notice of Allowability

Application No.

10/804,812

Examiner

DANIEL TEKLE

Applicant(s)

HOWELL ET AL.

Art Unit

2621

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 09/22/09.
2. ☒ The allowed claim(s) is/are 1-3, 6-8, 11, 14-19, 21, 25 and 26.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

/Daniel Tekle/
Examiner, Art Unit 2621

/Marsha D. Banks-Harold/
Supervisory Patent Examiner, Art Unit 2621

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jacob P. Rohwer on December 30, 2009.

The application has been amended as follows:

Amendment to Claims

Claim 1, 4, 10, 11, 12, 18-22 and 26 are amended as follows:

Claim 1 (Currently Amended): One or more processor-readable media having processor-executable instructions that, when executed by a processor, performs acts comprising: obtaining at least one of a plurality of encoded multimedia clips, the plurality of encoded multimedia clips collected in a timeline of a video editing system, each clip having a defined normal decode schedule which designates a normal rate for decoding the multimedia clip; obtaining one or more transforms; wherein the one or more transforms comprise a multimedia transition, a multimedia effect, or titles; decoding the plurality of encoded multimedia clips, wherein the decoding comprises decoding at least one encoded multimedia clip at a rate greater than the normal decode schedule; applying the one or more transforms to at least one of the plurality of decoded multimedia clips to form a multimedia segment; buffering the multimedia segment in a system memory;

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real-time glitch-free normal playback of the just-buffered and just-decoded multimedia segment, wherein the real-time glitch-free normal playback comprises-rendering and presenting the just-buffered and just-decoded buffered multimedia segment such that the just-buffered and just-decoded multimedia segment is played back without glitch, interruption, jumpiness, jerkiness, or change in playback speed; and determining whether to perform the decoding and buffering when spare computing resources are otherwise available to decode ahead in the timeline.

Claim 4 (Canceled) ~~one or more media as recited in claim 1, wherein the one or more transforms comprise a transition between one portion of the multimedia segment and another portion.~~

Claim 10 (Canceled) ~~A computer comprising one or more processor-readable media as recited in claim 1.~~

Claim 11 (Currently Amended) A system for facilitating glitch-free real-time playback of a multimedia segment from a within a video editing system, the system comprising: a decoder configured to decode an encoded multimedia segment, the encoded multimedia segment comprising at least one of a plurality media clips collected in a timeline of the video editing system, wherein the encoded multimedia segment has a defined normal decode schedule which designates a normal rate for decoding the encoded multimedia segment, the decoder being further configured to decode the encoded multimedia segment at a greater rate than the normal decode schedule, wherein the decoder is still further configured to determine whether to decode the encoded multimedia

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segment at a greater rate than the normal decode schedule when spare computing resources are otherwise available for doing so; a transformer configured to receive the decoded multimedia segments and apply a transform, wherein the transform is selected from a group consisting of multimedia effects and multimedia transitions; a buffer configured to store decoded multimedia segments which the decoder has decoded at a greater rate than the normal decode schedule; a renderer configured to obtain decoded multimedia signals from the buffer and render the decoded multimedia signals at a normal rate for presentation; and a display presentation mechanism configured to playback rendered and decoded multimedia signals in a real-time and glitch-free manner.

Claim 12 (Canceled) ~~A system as recited in claim 11, further comprising a transformer configured to receive the decoded multimedia segments and apply a transform.~~

Claim 18 (Currently Amended) A system as recited in claim 12 11, wherein the transformer is embodied, at least in part, in a processor-readable memory.

Claim 19 (Currently Amended) A system as recited in claim 12 11, wherein the transformer is embodied, at least in part, in hardware.

Claim 20 (Canceled) ~~A system as recited in claim 12, wherein the transform is selected from a group consisting of multimedia effects and multimedia transitions.~~

Claim 21 (Currently Amended) A method, executed by at least one processing unit, the method comprising: receiving a playback command to initiate playback of an encoded multimedia segment, the encoded multimedia segment comprising

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at least one of a plurality media clips collected in a timeline of the video editing system, the segment having a defined normal decode schedule which designates a normal rate for decoding the multimedia segment; responsive to receiving the playback command, decoding the encoded multimedia segment at a greater rate than the normal decode schedule when spare computing resources are otherwise available; transforming the decoded multimedia segment by applying a transform to at least one of the plurality of media clips, wherein the transform is selected from a group consisting of multimedia effects and multimedia transitions; buffering in a system memory the decoded multimedia segment produced by the decoding; real-time glitch-free normal playback of the buffered and decoded multimedia segment, wherein the real-time glitch-free normal playback comprises rendering and presenting the buffered and decoded multimedia segment on a display.

Claim 22 (Canceled) ~~A method as recited in claim 21, wherein the transform is selected from a group consisting of multimedia effects and multimedia transitions.~~

Claim 26 (Currently Amended) A method as recited in claim 22 21, wherein one or more of acts are performed via dedicated hardware, where those acts are selected from decoding, transforming, buffering, and rendering.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DANIEL TEKLE whose telephone number is (571)270-1117. The examiner can normally be reached on 7:30am to 5:00pm M-R and 7:30-4:00 Every other Friday..

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on 571-272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/
Supervisory Patent Examiner, Art Unit 2621

/Daniel Tekle/
Examiner, Art Unit 2621